

1     **WHAT IS CLAIMED IS:**

2             1. A do-it-yourself assembly construction piece comprising:  
3             a body with multiple ends and a thickness; and  
4             at least one connecting portion extending respectively from ends of  
5     the body, wherein, each one of the at least one connecting portion has a  
6     through hole, a convex distal edge and a thickness half the thickness of the  
7     body; and  
8             the body has a concave face formed concentric with the through hole  
9     in each one of the at least one connecting portion to mate with a  
10    corresponding convex distal edge on an adjacent assembly construction piece.

11            2. The do-it-yourself assembly construction piece as claimed in  
12    claim 1, wherein the body is a straight body (10a-10f) with two ends and two  
13    connecting portions (12) are formed respectively on the two ends of the  
14    straight body (10a-10f).

15            3. The do-it-yourself assembly construction piece as claimed in  
16    claim 1, wherein the body is a bent longitudinal body (20a-20c) with two  
17    ends, an inner side and an outer side; and  
18            two connecting portions (22) are respectively formed at the two ends  
19    on the outer side.

20            4. The do-it-yourself assembly construction piece as claimed in  
21    claim 1, wherein the body is a bent longitudinal body (30a, 30b) with two  
22    ends, an inner side, and an outer side; and  
23            two connecting portions (32) are respectively formed at the two ends  
24    on the inner side.

1           5. The do-it-yourself assembly construction piece as claimed in  
2 claim 1, wherein the body is a straight body (40) with two ends and two sides;  
3           two connecting portions (42) formed respectively on opposite sides  
4 of the straight body (40).

5           6. The do-it-yourself assembly construction piece as claimed in  
6 claim 1, wherein the body (50a, 50b) has two ends;  
7           one connecting portion (52) is formed at one end;  
8           a hexahedron sleeve (56) is formed at the other end of the body (50),  
9 wherein each hexahedron sleeve (56) has a top, a bottom, a front, a rear, two  
10 sides and a rod hole (562) defined through the hexahedron sleeve (56) from  
11 the front to the rear.

12           7. The do-it-yourself assembly construction piece as claimed in  
13 claim 6, wherein a bolt hole (564) is defined through the hexahedron sleeve  
14 (56) from the top to the bottom to communicate with the rod hole (562).

15           8. The do-it-yourself assembly construction piece as claimed in  
16 claim 1, wherein the body is a twisted body (60) with two ends; and  
17           two connecting portions (62) formed respectively on the two ends;  
18           wherein, the twisted body (60) has a middle portion twisted to 90°.

19           9. The do-it-yourself assembly construction piece as claimed in  
20 claim 1, wherein the body is a rectangular body (70a, 70b) with four ends;  
21 and

22           at least three connecting portions (72) formed on the rectangular  
23 body (70a, 70b).

24           10. The do-it-yourself assembly construction piece as claimed in

1 claim 1, wherein the body is a straight body (80) with two ends;  
2 one connecting portion (82) is formed at one end of the straight body  
3 (80); and  
4 an elongated hole (88) is defined on the straight body (80) near the  
5 other end of the straight body (80), is countersunk and has a bore diameter  
6 the same as the through hole of the connecting portion (82).

7 11. The do-it-yourself assembly construction piece as claimed in  
8 claim 1, wherein the assembly construction piece has  
9 an L-shaped body (100a, 100b) with multiple ends; and  
10 at least three connecting portions (102) formed respectively on the  
11 ends of the L-shaped body (100a, 100b).

12 12. The do-it-yourself assembly construction piece as claimed in  
13 claim 11, wherein the L-shaped body further has a flat abutting face (114)  
14 formed at an included angle on the L-shaped body.

15 13. The do-it-yourself assembly construction piece as claimed in  
16 claim 1, wherein the assembly construction piece has a long body (120) with  
17 two ends that are bent in different directions and are parallel to each other.

18 14. The do-it-yourself assembly construction piece as claimed in  
19 claim 1, wherein the assembly construction piece has a curved body that is  
20 curved transversely and subtends an arc of any number of degrees evenly  
21 divisible into 360°.

22 15. The do-it-yourself assembly construction piece as claimed in  
23 claim 1, wherein the through hole on each one of the connecting portion has  
24 an inner toothed surface.

1           16. A do-it-yourself assembly construction piece comprising:  
2           two bodies (90), wherein each body (90) has a thickness and two  
3           ends, and one end of one body is pivotally connected to an end of the other  
4           body; and  
5           one connecting portion (92) is formed on the other end of each body  
6           and has a through hole and a convex distal edge, wherein each connecting  
7           portion (92) has a thickness half the thickness of the body (90);  
8           wherein, each body (90) has a concave face formed concentric with  
9           the through hole in the connecting portion to mate with the concave distal  
10          edge on an adjacent assembly construction piece.